



Egg handling by Robots at GSK Vaccines Site Dresden

STEPHAN RITTER
PRESENTING FOR







GSK



RAYA 2024 Finalist Event

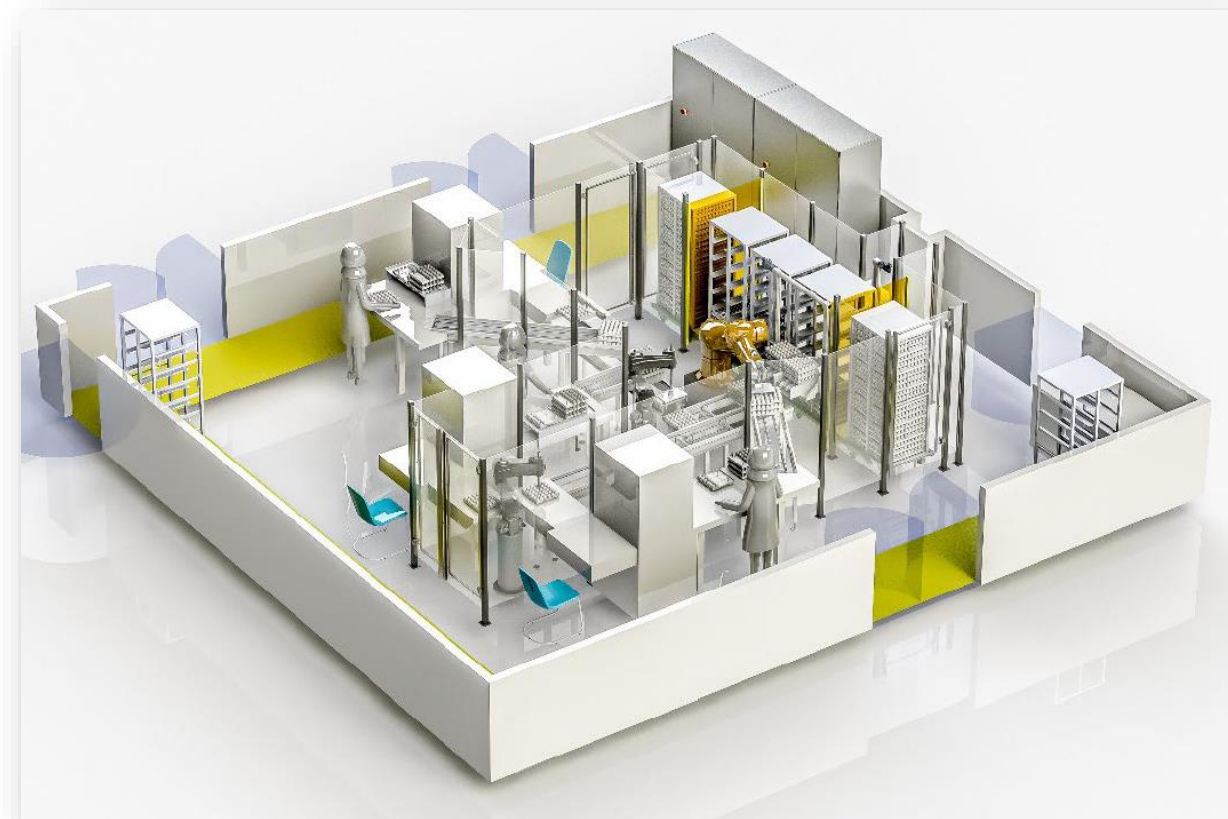
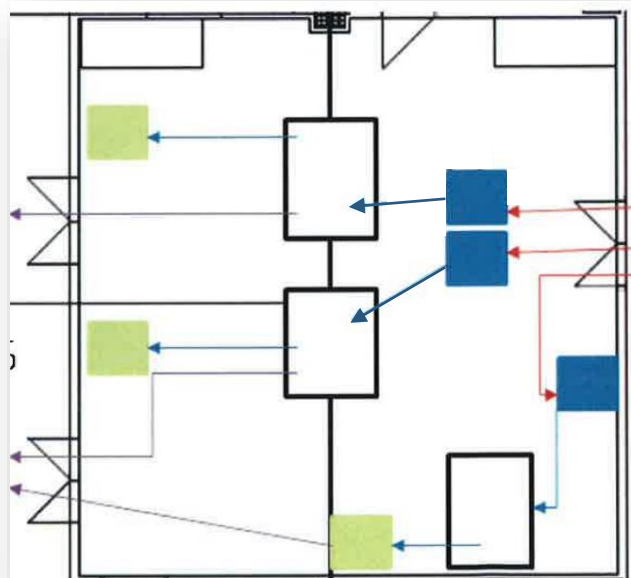


Agenda | Visual Inspection of incubated eggs

-  Introduction and drivers
-  Challenges of the application
-  Technical solution and topics
-  Feedback and after-action review
-  Why should this application get the award?
-  Thanks to the team



Visual Inspection of incubated eggs



OUR DRIVERS

- ◆ **EHS (ergonomics):**
 - daily handling of app. 70 trolleys
 - with 420 trays / hour
 - each tray app. 2,5 kg between 30 cm above floor to 1,60m in height
- ◆ **Business | ROI < 7**

Visual Inspection of incubated eggs

OUR CHALLENGES



Space restrictions

- ▶ room designed for minimal transport & cleaning
- ▶ no extension area

Process tolerances

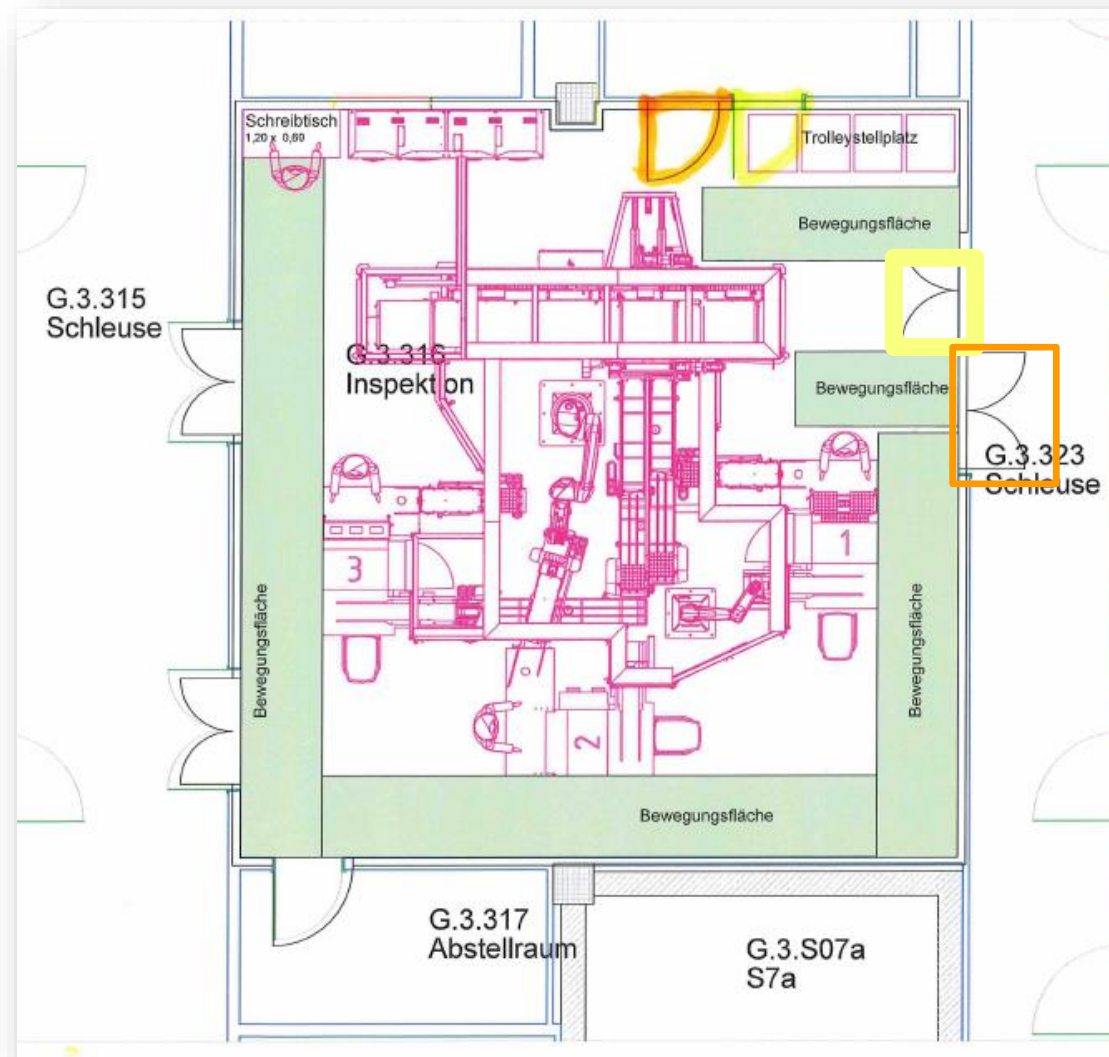
- ▶ trolleys
- ▶ weight of the eggs

Schedule

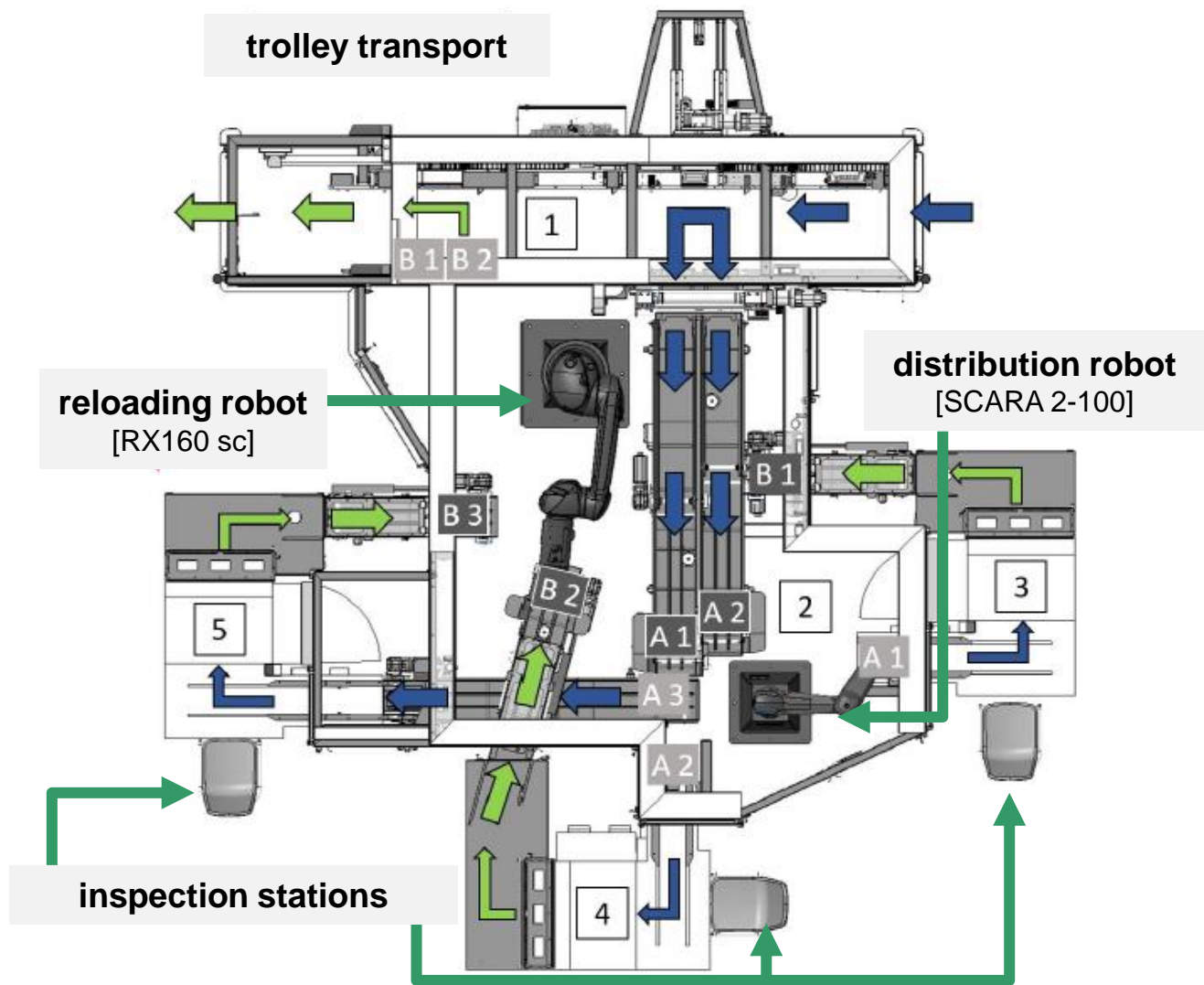
- ▶ seasonal product
- ▶ time critical (9 weeks total)

Safety / Cleaning

- ▶ safe operation (dark room)
- ▶ active process area



Visual Inspection of incubated eggs

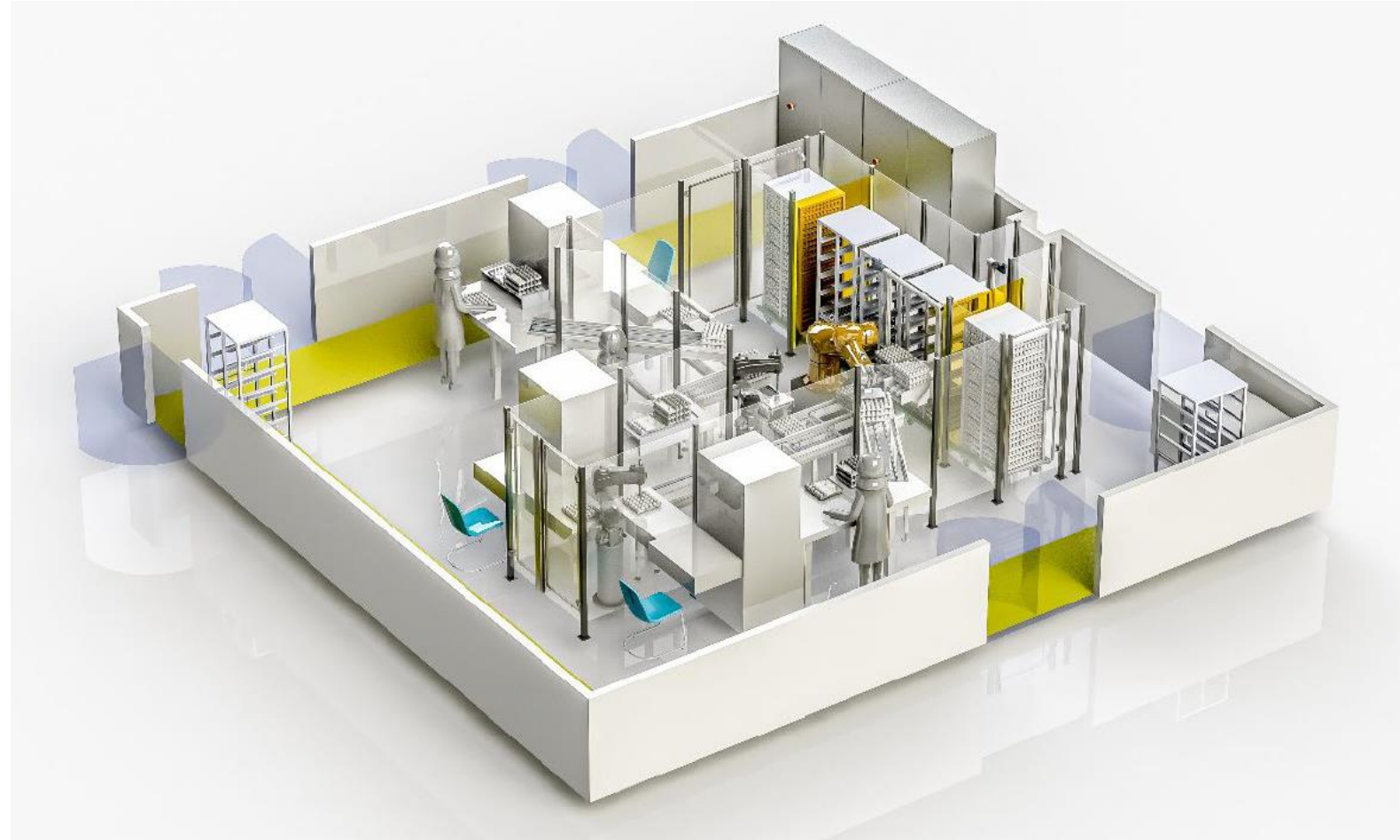
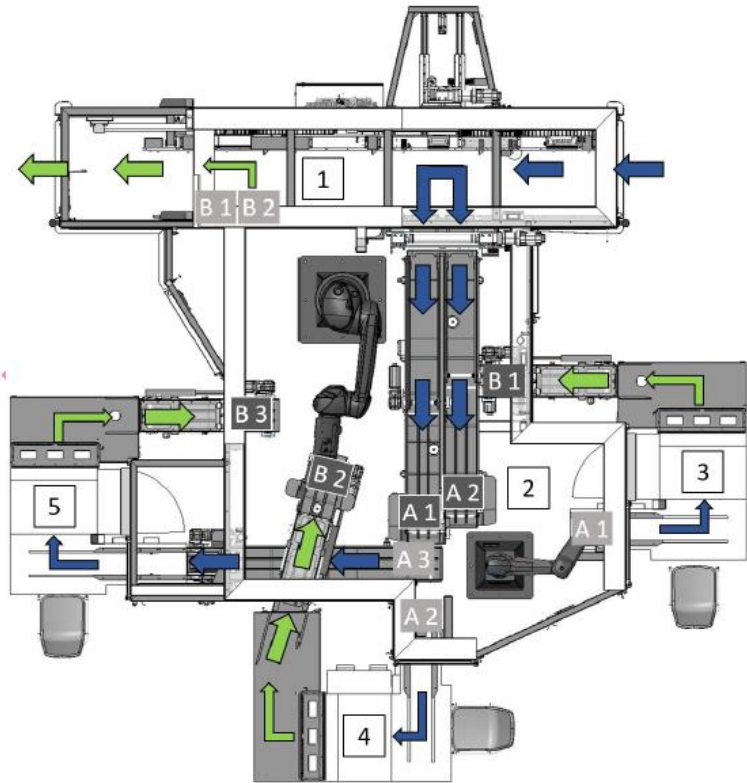


OUR SOLUTION

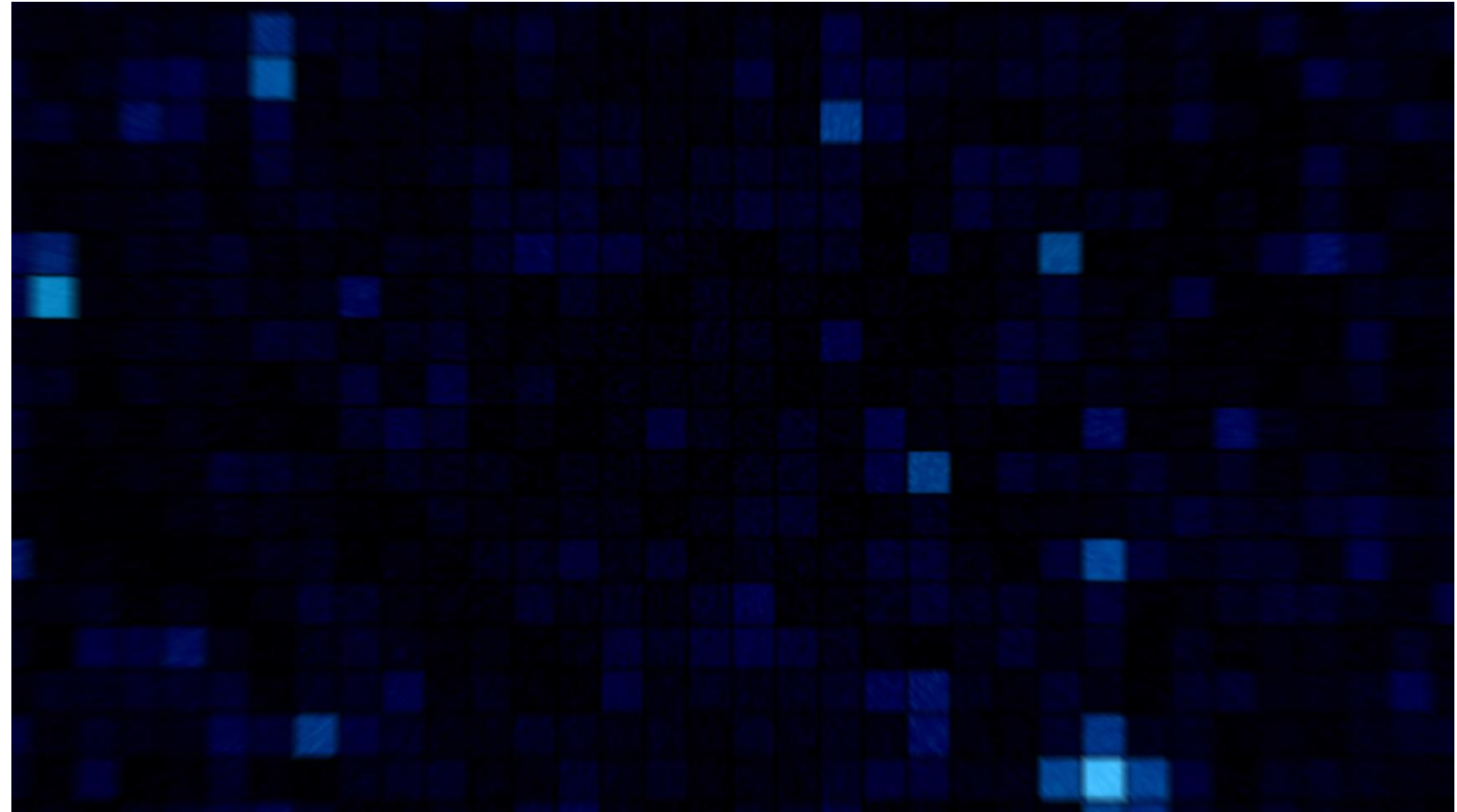
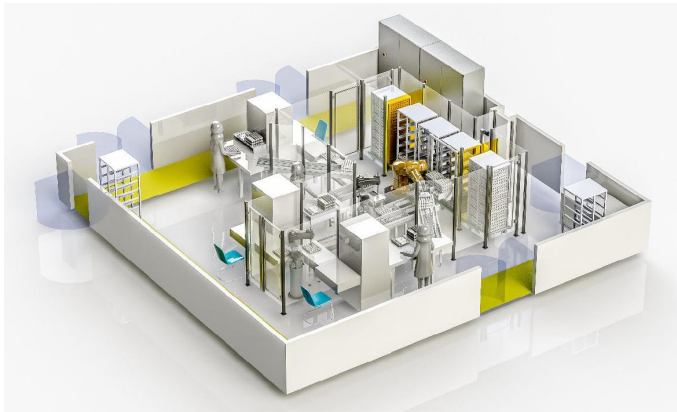
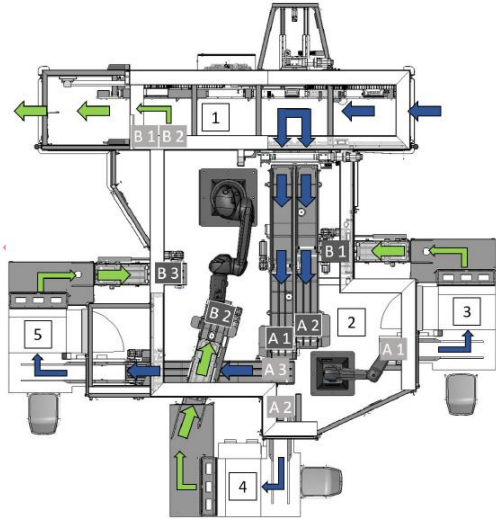


- ✓ safe operation with staff in tight area
- ✓ flexible supply of individual stations
- ✓ back up scenario for manual operation
- ✓ acceleration control

Visual Inspection of incubated eggs



Visual Inspection of incubated eggs



Visual Inspection of incubated eggs

FEEDBACK & AFTER ACTION REVIEW




SAFETY




QUALITY



TIME



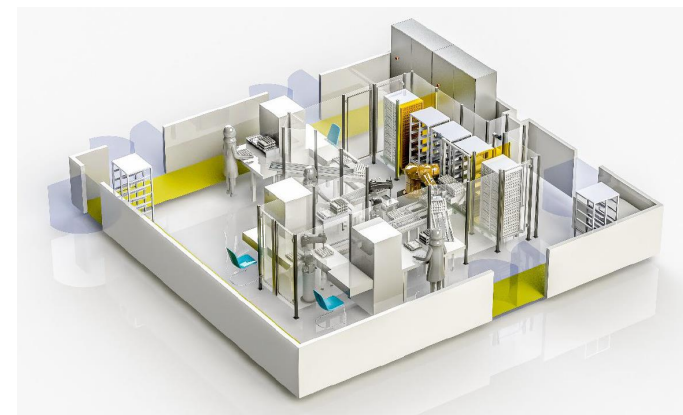
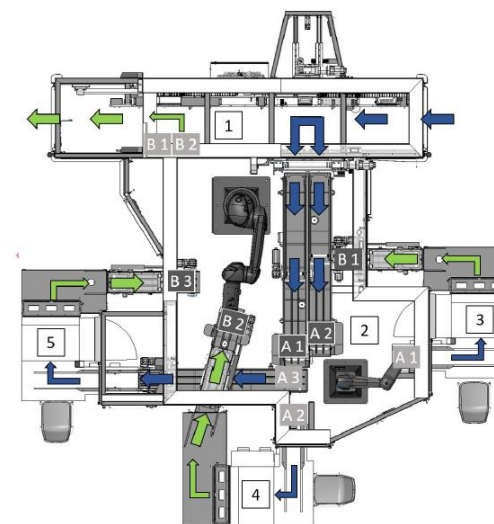
COSTS



ACCEPTANCE BY USER



After Action Review (after 1 year)



Visual Inspection of incubated eggs

Why should this project get the award? 

PIONEERING WORK



Ideas meets creative professionals and beats a lot of „but's“.

Follow up: Adaption to other production processes within the site.

OPEN MINDED TEAM INSPIRES



Open minded cooperation between the teams do inspire all.

Straight communications, direct contacts, test's and sharing of experiences also out of the URS was the key to success.

difficult „historical“ manual processes could be improved

Visual Inspection of incubated eggs



THANK YOU TO THE TEAM



Reinhard, Marcus, Tom,...



Melanie, Florian, Eric, Ulrike, Stephan, Jörg, Lisa

